Naval Aviation

"There to Respond…

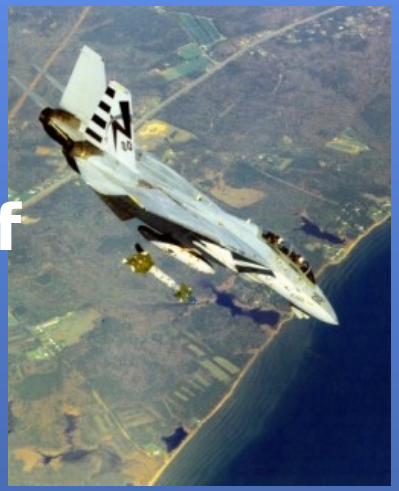
…with the Power to Make a Difference"

Naval Aviation

Centerpiece of Naval Expeditionary Forces

- **Sustained, precise and lethal firepower … today**
- **Response to 58 world crises since Desert Storm**
- **Air wings train/deploy expecting to see combat**

Operation Allied Force



Mobile Fielded Forces

- 8% of the aircraft, yielded 30% of the kills

Electronic Attack

- EA-6B was required for all strike missions

Pinned Yugoslavian Navy in Port

- Armed surveillance by P-3s, S-3s and helicopter forces freed air wing assets to focus on strike

Operation Enduring Freedom

- **Four Carriers and one ARG**
- **3,000 sorties and counting**
- **Initially air wing aircraft flew virtually all the tactical combat sorties over Afghanistan**

Flight Training

Secrets to Success

- Up Chit
- Prepare Physically (PRT/Swim)
- Good Study Habits (Study Groups)

Preflight

- 6 weeks total
- Approximately 4+ weeks of academics
  - Aerodynamics
  - Weather
  - Engines
  - Navigation
  - FR&R

PILOT

- **F14, F18, EA6, S3, AV8 65-68 Weeks**
- **E2/C2 (Carrier Qual) 64 Weeks**
- **H60, H46, H53, AH1/UH150 Weeks**
- **P3, EP3, C130 48 Weeks**

NFO

- **F14, F18, EA6, S3 48-52 Weeks**
- **P3, EP3, E6 38 Weeks**
- **E2 (RAG) 68 Weeks**

USN Officer Community

ALL OFFICERS*
53,908

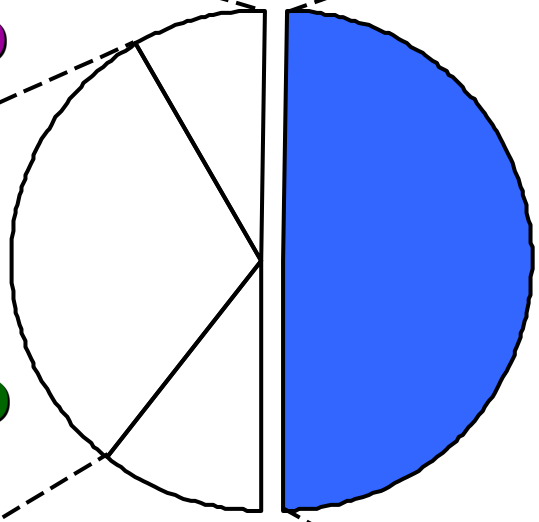
Restricted Line & Staff
41% (22,123)

- INTEL 6% (1,285)
- EDO 4% (829)
- AE/AMDO 4% (814)
- CRYPTO 3% (746)
- PAO 1% (188)
- OCEANO 2% (390)
- HR 3% (523)
- IP 1% (304)

Restricted Line
10% (5,079)

- MEDICAL 51% (11,463) MC / DC /NC / MSC
- SUPPLY 12% (2,640)
- CEC 6% (1272)
- CHAPLAIN 4% (864)
- JAG 3% (805)

Staff Corps
31% (17,044)



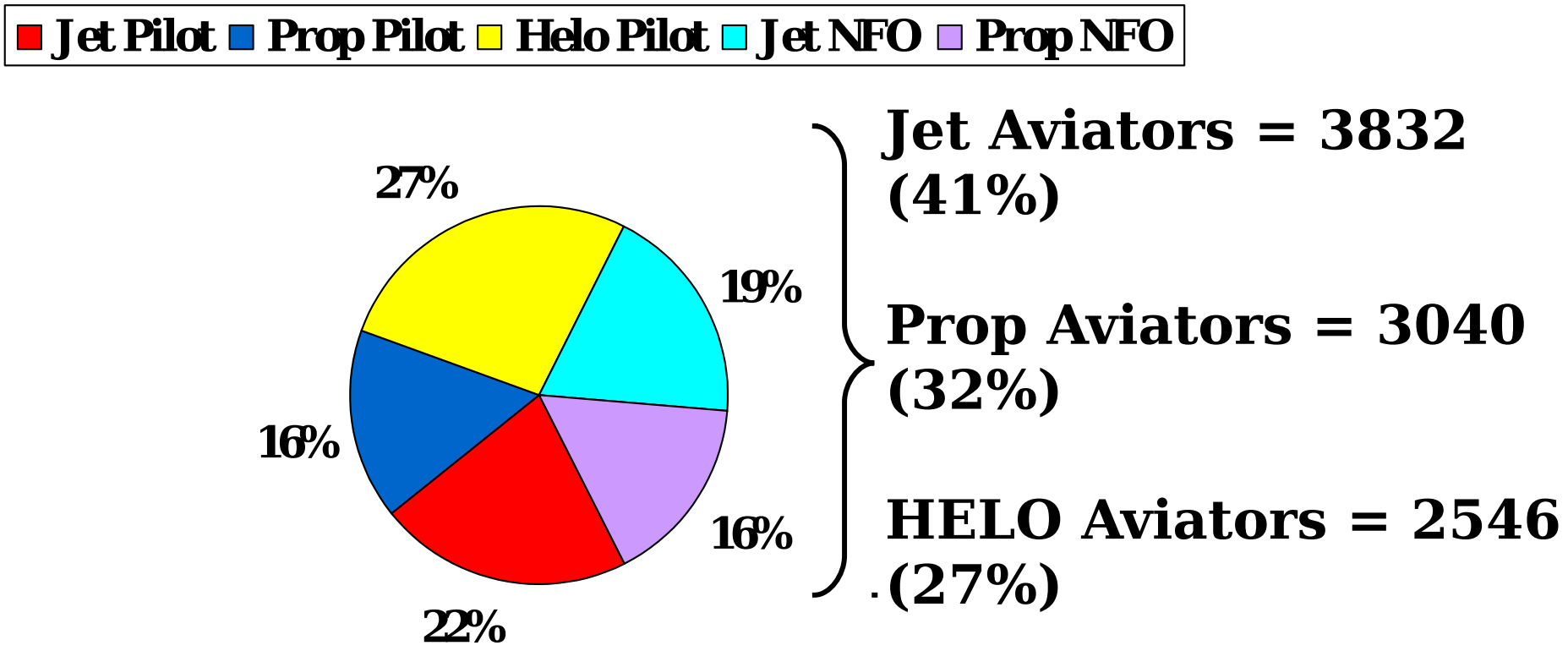
LDO/CWO
11% (5,748)

Unrestricted Line (UR
48% (26,037)

- AVIATION 50% (12,977)
- SURFACE WARFARE 32% (8,227)
- SUBMARINE 14% (3,572)
- FLEET SUPPORT 1% (458)
- SPECWAR 2% (535)
- SPECOPS 1% (342)

* As of end of September 2001

Aviation Community Demographics



ated Aviators assigned to 18 sub-communities flying 25 types of

Time-to-Train and Minimum Service Requirements

Time-to-Train Goal ("Street-to-Fleet")

Pilot		- NFO	
Jet:	2.5 yrs	Jet:	1.7 yrs
E-2/C-2:	2.4 yrs	E-2:	1.5 yrs
Prop:	2.0 yrs	Prop:	1.4 yrs
Helo:	2.0 yrs		

Minimum Service Requirements (MSR)

Pilot:	8 years after Winging
NFO:	6 years after Winging

Naval Aviation Roadmaps

- **Carriers**
- **Maritime Patrol**
- **Helicopters**
- **E-2C, S-3B**
- **Strike-Fighters & Electronic Attack**

Carrier Roadmap

Nimitz Backfit

CVNX

- New Propulsion Plant - 50 year life
- Electro-magnetic Launch & recovery
- Improved Flight Deck

CVN-77

- Manpower Reduction (Smart Carrier)

USS NIMITZ CLASS

Dimensions: 1,092 X 252 feet

Area of flight deck:4.5 acres

Displacement: 100,000 tons

Speed: 30+ knots

Maritime Patrol

- **P-3C/EP-3E key to:**
  - **Maritime dominance (ASUW/ASW)**
  - **Knowledge superiority (ISR, I&W)**
- **Multi-mission Maritime Aircraft (MMA IOC ’10)**
  - **Military/Commercial Derivative**
  - **UAV adjunct**

Helicopters

- **Helicopter Master Plan**
  - **8 Aircraft necking down to 2**
- **SH-60R (IOC ’02)**
  - **Sea Control**
  - **Maritime Strike**
- **MH-60S (IOC ’02)**
  - **Vertical logistics**
  - **Naval Special Warfare**
  - **Mine Counter Warfare (IOC ’05)**
  - **Combat Search and Rescue (IOC ’06)**

E-2C Hawkeye

- **Hawkeye 2000**
  - **Fleet introduction 2001**
  - **Cooperative Engagement Capability (CEC)**
- **Radar Modernization Program (RMP IOC ’09)**
  - **Digital radar - no overland limitations**
- **Multi-year Procurement Ends in 2003**

S-3B Viking

- **Critical missions:**
  - **Organic tanking**
  - **Maritime Dominance**

- **Aircraft retirement**
  - **Keyed to mission migration:**
    - **F/A-18E/F, SH-60R and P-3C**
  - **Phased retirement during 2006–2010 timeframe**

EA-6B Prowler

- **Electronic Attack:**
  - **Integral part of air wing - now and future**

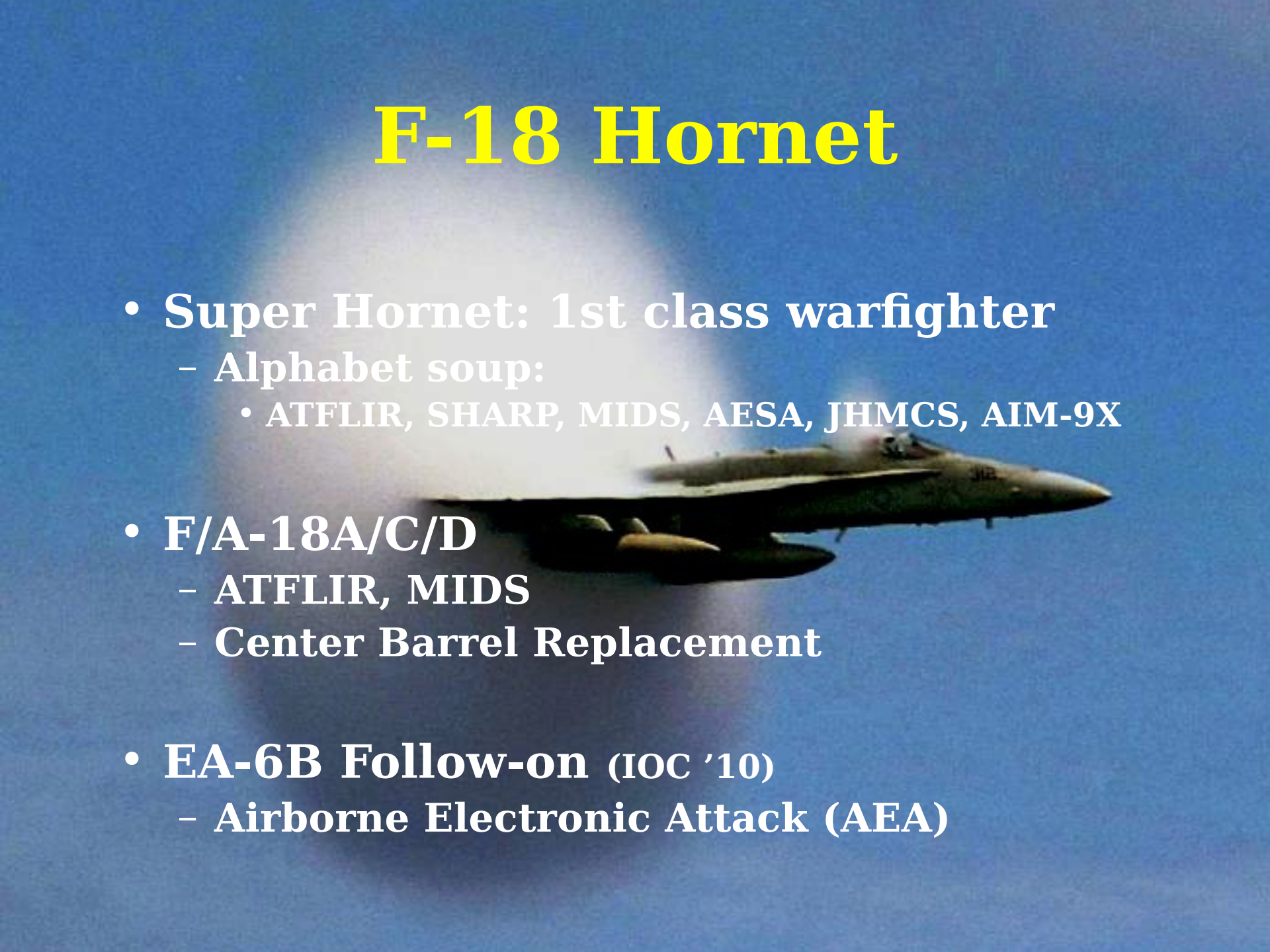
- **Challenges:**
  - **OPTEMPO vs. tasking balance**
  - **Conserving assets - getting to the follow-on**

F-14 Tomcat

- **Bridging to F-18F Super Hornet:**
  - **Precision strike for every Battle Group**
  - **Only Tactical Reconnaissance available to CINCs**
  - **Phased transition to F-18F this Decade**

- **F-14 lethality upgrades:**
  - **LANTIRN Pod and JDAM GPS Bomb**

F-18 Hornet



- **Super Hornet: 1st class warfighter**
  - **Alphabet soup:**
    - **ATFLIR, SHARP, MIDS, AESA, JHMCS, AIM-9X**
- **F/A-18A/C/D**
  - **ATFLIR, MIDS**
  - **Center Barrel Replacement**
- **EA-6B Follow-on (IOC ’10)**
  - **Airborne Electronic Attack (AEA)**

Carrier Air Wing

Your Air Wing		Future Air Wing	
4	EA-6B	6	AEA
14	F-14/F/A-18F	14	F/A-18F
12	F/A-18E	12	F/A-18E (tanking)
24	F/A-18C	24	F/A-18C/JSF/UCAV
4	E-2C	6	E-2C (RMP)
8	S-3B	0	S-3B
2	C-2A	2	C-2A
4	SH-60F	4	SH-60R
2	HH-60	6	CH-60S
[illegible]	frames (50 [illegible]s)	74	airframes (56 strikers)

- Achieves EA proportionality and mission tanking
- Helicopter Forces restructured
- Unmanned Combat Vehicles (UCAV)

CARRIERS / AIR WING TRAINING CYCLE

Deploy -18 Months

D-12

D-6

D-0

CARRIER

UPKEEP

SHIP TRAINING

CARRIER QUALS

CARRIER / AIR WING TRAINING

BATTLE GROUP TRAINING

AIR WING

SQUADRON TRAINING

SQUADRON DETS

SQUADRON ADVANCED TRAINING

AIR WING TRAINING AT FALLON

DEPLOY

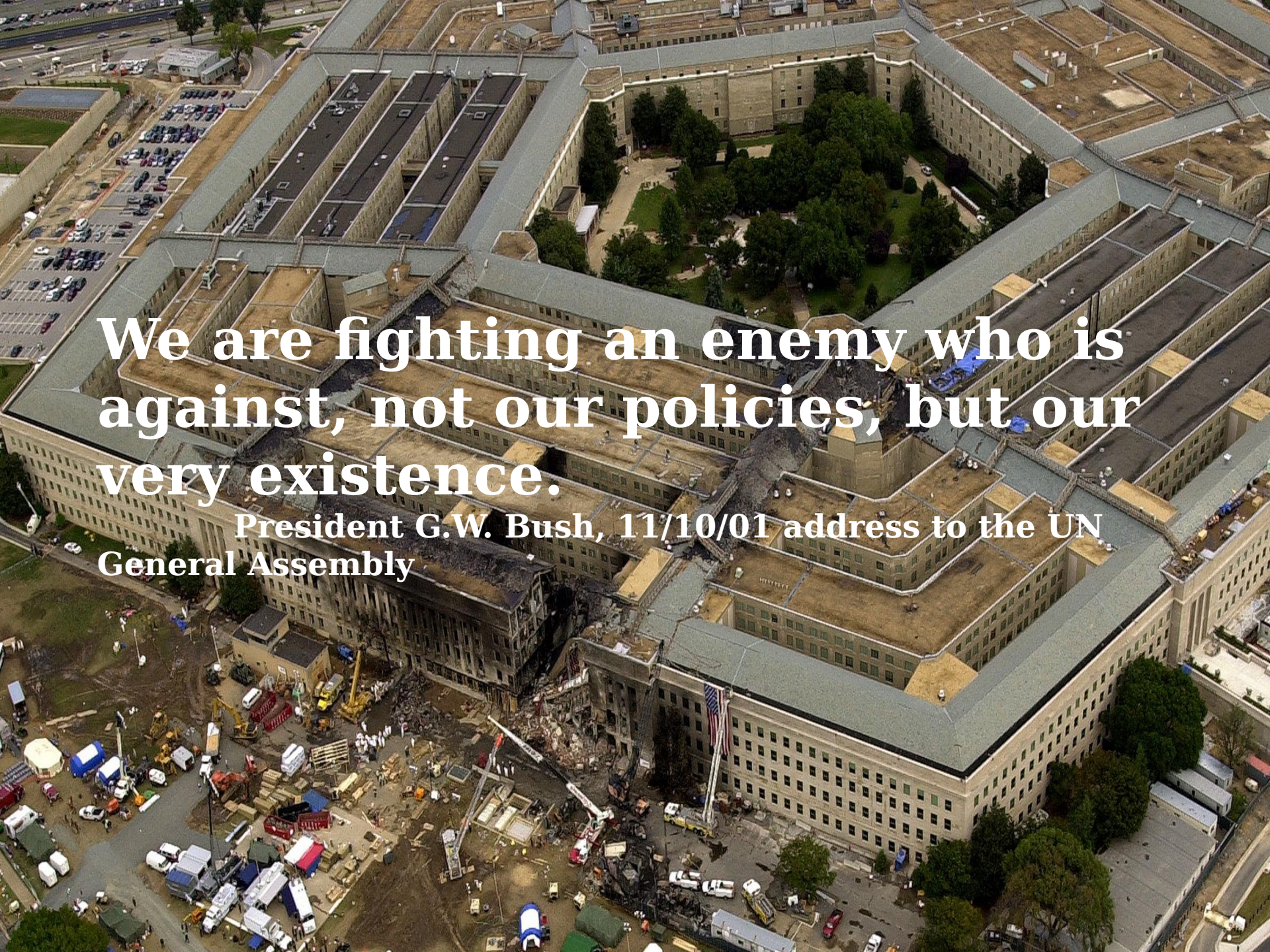
UNIT LEVEL TRAINING

INTEGRATED TRAINING

Naval Aviation: Who we are …

Six thoughts regarding leadership at the top

1. Trust subordinates
2. Choose words carefu
3. Have tolerance for d
4. Be careful with emai
5. See yourself / Navy a
   others see us – Grand
   Washington Post test
6. Set the example
   (work hard and have

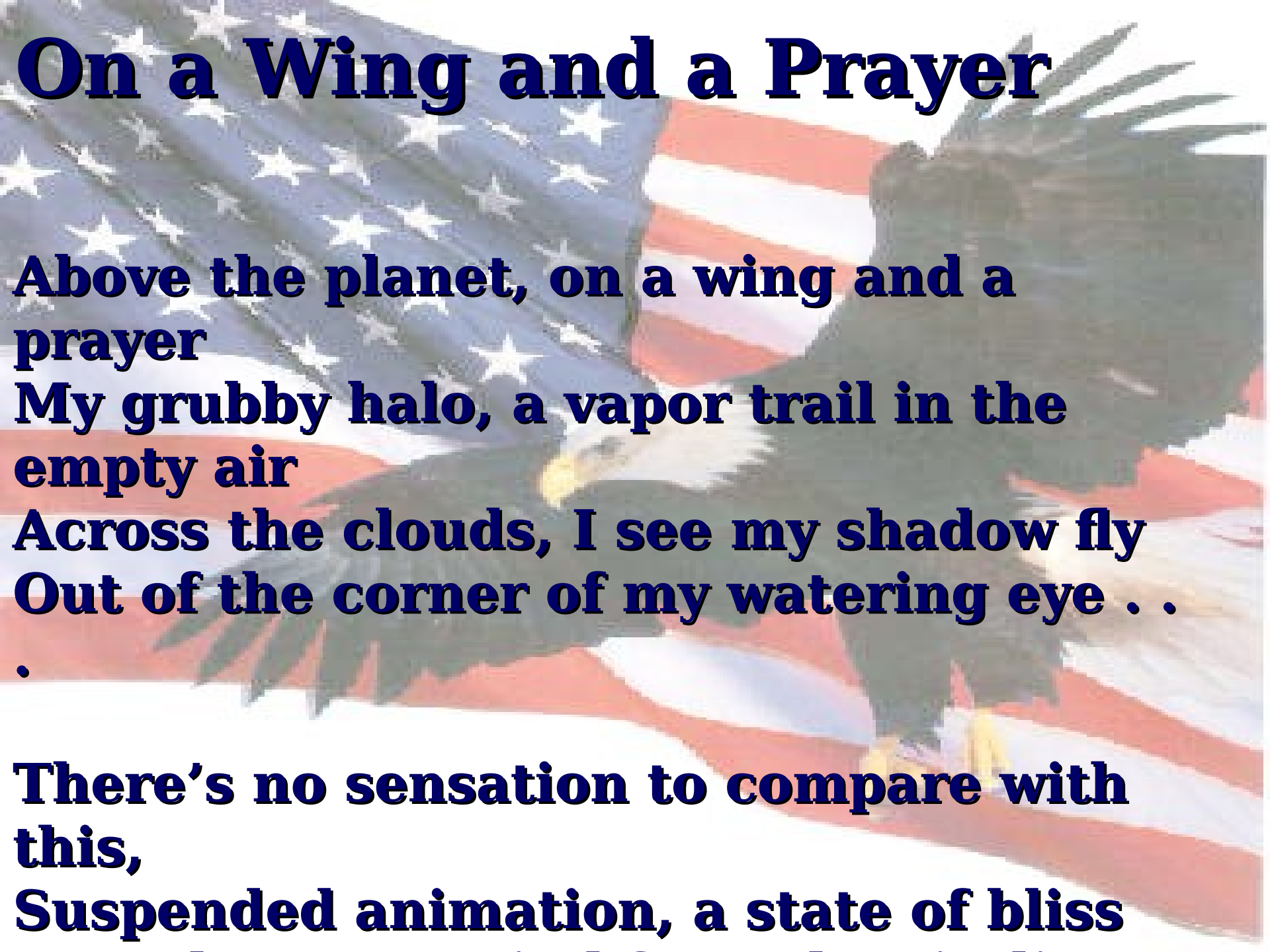


We are fighting an enemy who is against, not our policies, but our very existence.

President G.W. Bush, 11/10/01 address to the UN General Assembly

Questions?
Go Navy

On a Wing and a Prayer



Above the planet, on a wing and a prayer
My grubby halo, a vapor trail in the empty air
Across the clouds, I see my shadow fly
Out of the corner of my watering eye . . .

There's no sensation to compare with this,
Suspended animation, a state of bliss

BACK-UP SLIDES

Aviator Career Path

CAPT

(21.1 yr-Opp 57%)

CDR

(15.4 yr -Opp75%)

LCDR

(10.1yr - Opp 80%)

LT

LTJG

ENS

24 ---
22 ---
20 ---
18 ---
16 ---
14 ---
12 ---
10 ---
8 ---
6 ---
4 ---
2 ---
0 ---

Major O-6 Command - CAG/Ship/Shore CMD

3rd Shore tour (24 months) JPME/STAFF/Joint/DC

4th Sea - Squadron XO/CO Tour (24 to 36 months)

Fleet Replacement Squadron (FRS) - PXO

2nd Shore Tour (24 - 30 months) FRS/TRACOM/NPS/Staff

3rd Sea -Squadron Department Head Tour (24 to 30months)

Fleet Replacement Squadron (FRS) - CAT II

2nd Sea Tour (24 months) Ship/Sea Staff/Squadron

1st Shore Tour (30 months) FRS/TRACOM/NPS/Staff

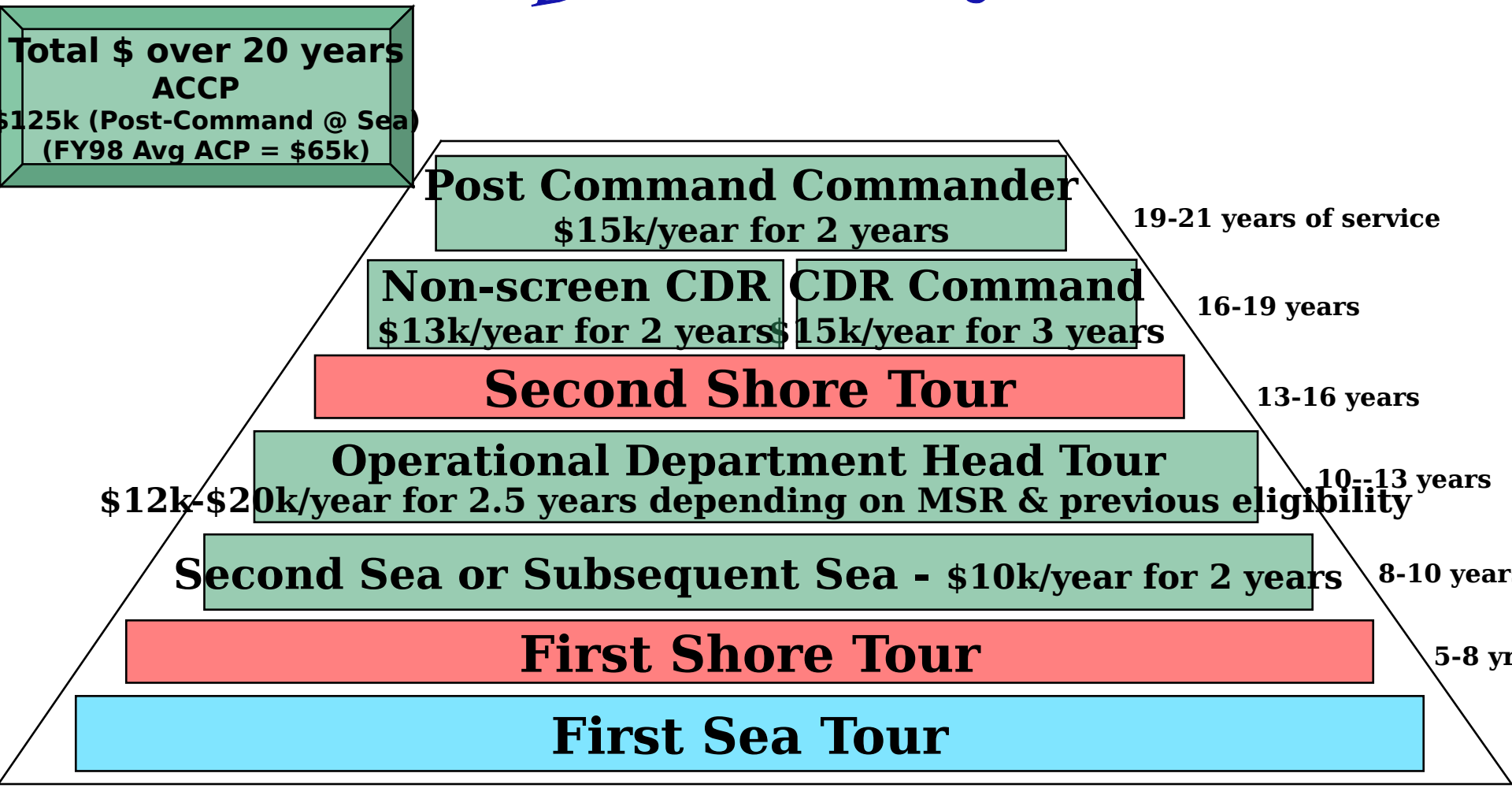
1st Squadron Tour (36 months)

Fleet Replacement Squadron (FRS)- CAT I

Flight Training

iation Career Continuation Pay (ACC

Sea and Performance Based Incentive



Time-to-Train and Minimum Service Requirements

- **Time-to-Train Goal & Actual ("Street-to-Fleet")**
  - **Pilot - NFO**

• Jet:	2.5 / 3.0 yrs	Jet: 1.7 / 2.1 yrs
• E-2/C-2:	2.4 / 2.7 yrs	E-2: 1.5 / 1.8 yrs
• Prop:	2.0 / 2.2 yrs	Prop: 1.4 / 1.8 yrs
• Helo:	2.0 / 2.2 yrs	

- **Minimum Service Requirements (MSR)**
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